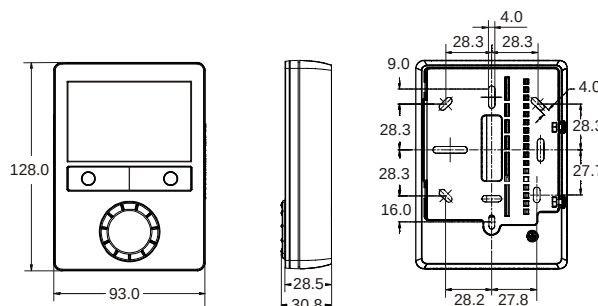
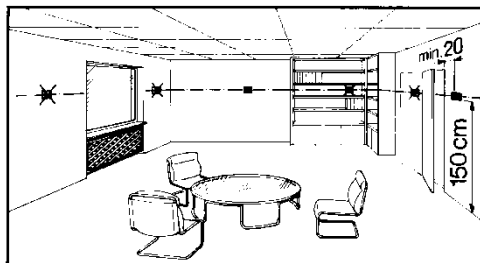
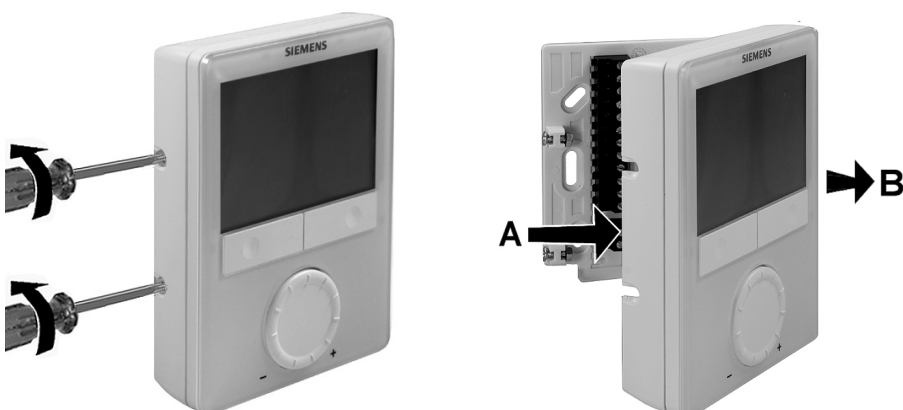


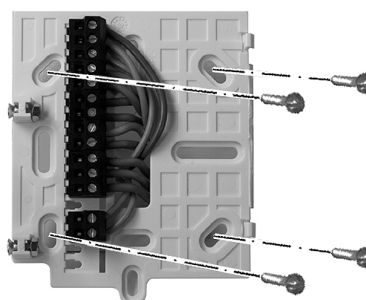
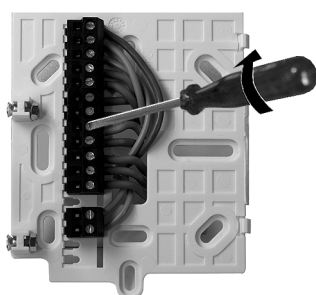
Commissioning guide of RDG100T with LICON fan-coil units



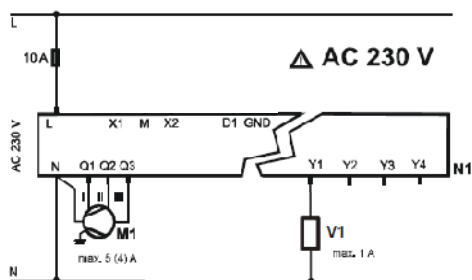
1. Release screws on left side and uncover the controller



2. Connect wires to terminals and fix the base plate to the wall:

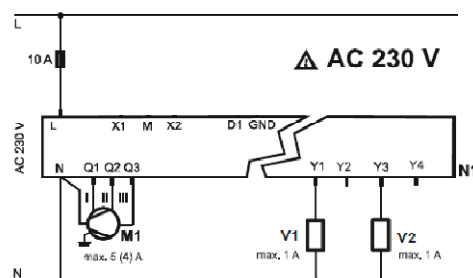


2-pipe fan-coil unit, 2-position actuator



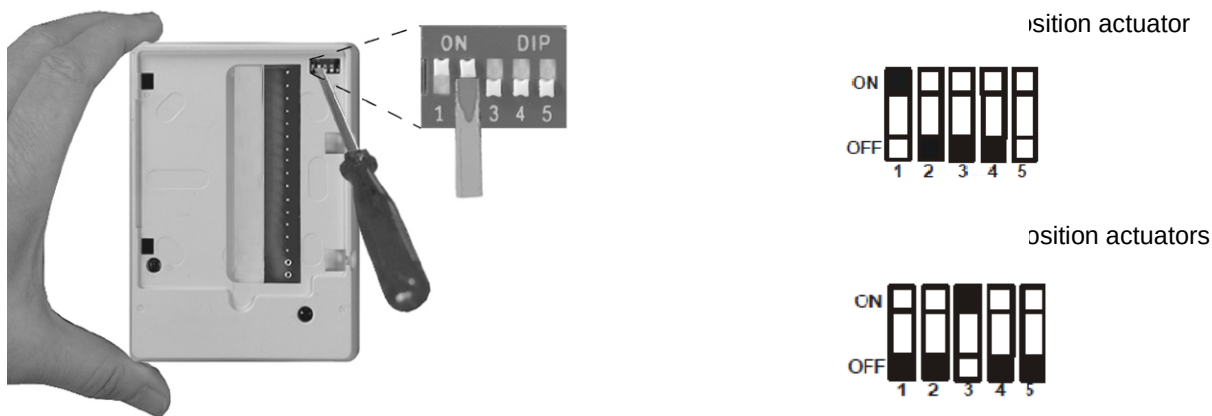
M1 – fan, V1 – valve

4-pipe fan-coil unit, 2-position actuators

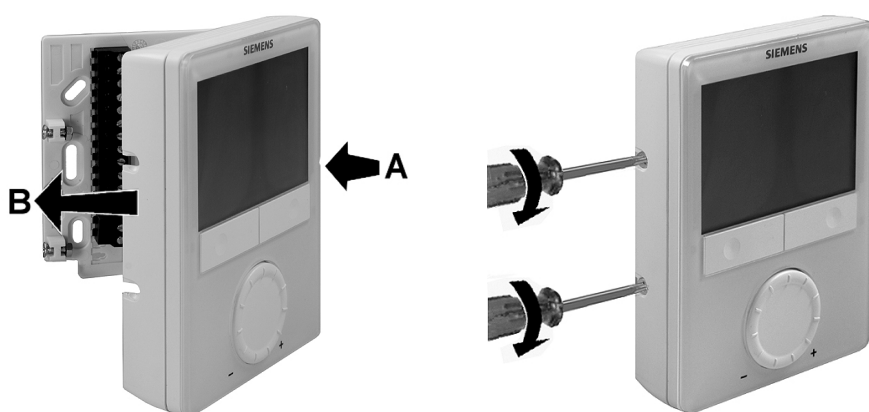


M1 – fan, V1 – heating valve, V2 – cooling valve

3. Set the DIP switches on the rear side of the controller:



4. Close the controller and tighten the screws



5. Set the control parameters:

Enter "Expert level" and "Diagnostics and test level"

Press left button and right button simultaneously for >3 seconds, release, press the left button for >3 seconds, then turn the rotary knob counterclockwise min. ½ rotation. The display shows "Pxx".

Setting of the control parameters

- Select the required parameter by turning the rotary knob.
- Press button (OK); the current value of the selected parameter starts blinking and can be changed by turning the rotary knob.
- Press button (OK) to confirm the adjusted value or button (Esc) to cancel the change.
- If you wish to adjust additional parameters, repeat steps a)...c).
- Press button (Esc) to leave the parameter setting mode.

Following parameters have to be set for right control performance of the RDG100T with LICON fan-coil units

Par.	Name	Factory setting	Recommended setting
P01	Control sequence	2-pipe fan-coil: 1 = Cooling only 4-pipe fan-coil.: 4 = Heating and cooling	0 = Heating only 1 = Cooling only 2 = Heat/cool changeover Manual 3 = Heat/cool changeover Auto (the temperature sensor QAH11.1 acquiring water temperature has to be connected to the X2 input) 4 = Heating and cooling
P02	User operating mode profile (mode button)	1	1 = (Auto) - Comfort - Protection 2 = (Auto) - Comfort - Economy - Protection
P60	Fan kick in Comfort mode (time until next kick)	0	90 min = OFF (fan doesn't operate in dead zone)

6. If you wish to change other parameters too, follow the parameter list bellow:

For proper control performance of the RDG100T with the Licon fan-coil units it is not necessary to change these parameters.

Service level:

Par.	Name	Factory setting	Range
	Servis level		
P01	Control sequence	2-pipe: 1 = Cooling only 4-pipe: 4 = Heating and Cooling	0 = Heating only 1 = Cooling only 2 = Heat/cool changeover Manual 3 = Heat/cool changeover Auto 4 = Heating and cooling
P02	User operating mode profile (mode button)	1	1 = (Auto) - Comfort - Protection 2 = (Auto) - Comfort - Economy - Protection
P03	User fan mode selection	0	0 = Auto - Manual 1 = Manual 2 = Auto - Manual - Protection
P04	Selection of °C or °F	0 (°C)	0 = Degrees Celsius (°C) 1 = Degrees Fahrenheit (°F)
P05	Temperature sensor calibration (internal, external)	0 K	- 3 ... 3 K
P06	Standard temperature display	0	0 = Room temperature 1 = Setpoint
P07	Display info line (2nd line of LCD)	0	0 = --- (No display) 1 = °C and °F
P08	Comfort setpoint	21 °C	5 ... 40 °C
P09	Minimum setpoint in Comfort mode	5 °C	5 ... 40 °C
P10	Maximum setpoint in Comfort mode	35 °C	5 ... 40 °C
P11	Economy mode heating setpoint	15 °C	OFF, 5 ... WcoolE-saving; (WcoolE-saving = 40 °C max)
P12	Economy mode cooling setpoint	30 °C	OFF, WHeatE-saving ... 40 °C; (WHeatE-saving = 5 °C min)
P13	Electric reheater in cooling mode	ON	ON: Enabled OFF: Disabled
P14	Button lock function	0	0 = Unlocked 1 = Auto locked 2 = Manual locked

Expert level:

Par.	Name	Factory setting	Range
	Expert level		
P30	P-band / switching differential in heating mode	2 K	0.5 ... 6 K
P31	P-band / switching differential in cooling mode	1 K	0.5 ... 6 K
P32	P-band / switching differential for radiator	2 K	0.5 ... 6 K
P33	Dead zone in Comfort mode	2 K	0.5 ... 5 K
P34	Setpoint differential (w _D)	2 K	0.5 ... 5 K
P35	Integral time	5 min	0...10 min
P36	Heating / cooling changeover switching point cooling (X1/X2)	16 °C	10...25 °C
P37	Heating / cooling changeover switching point heating (X1/X2)	28 °C	27...40 °C
P38	Functionality of X1	1 = External sensor	0 = --- (no function) 1 = Room temp. external / Return air. (AI) 2 = Heating / cooling changeover (AI/DI) 3 = Operating mode contact [DI] 4 = Dew point sensor (DI) 5 = Enable of electric heater (tariff) (DI) 6 = Fault input (DI)
P39	Operating action of X1 if digital input	0 = (N.O.)	0 = Normally open (N.O.) 1 = Normally closed (N.C.)

Par.	Name	Factory setting	Range
	Expert level		
P40	Functionality of X2	2 = Heat / cool changeover	0 = --- (no function) 1 = Room temp. external / Return air. (AI) 2 = Heating / cooling changeover (AI/DI) 3 = Operating mode contact [DI] 4 = Dew point sensor (DI) 5 = Enable of electric heater (tariff) (DI) 6 = Fault input (DI)
P41	Operating action of X2 if digital input	0 = (N.O.)	0 = Normally open (N.O.) 1 = Normally closed (N.C.)
P42	Functionality of D1	3 = Operating mode contact	0 = --- (no function) 2 = Heating / cooling changeover (DI) 3 = Operating mode contact [DI] 4 = Dew point sensor (DI) 5 = Enable of electric heater (tariff) (DI) 6 = Fault input (DI)
P43	Operating action of D1	0 = (N.O.)	0 = Normally open (N.O.) 1 = Normally closed (N.C.)
P44	Running time of Y1/Y2 output (only when modulating PI control)	150 s	20...300 sec
P45	Running time of Y3/Y4 output (only when modulating PI control)	150 s	20...300 sec
P46	Output Y1/Y2 (if not parametrized as 3-pos.)	ON/OFF (1)	1 = 2-position 2 = PWM
P47	Output Y3/Y4 (if not parametrized as 3-pos.)	ON/OFF (1)	1 = 2-position 2 = PWM
P48	Minimum output on time 2-position control output	1 min.	1...20 minut
P49	Minimum output off time 2-position control output	1 min.	1...20 minut
P50	Purging function (only when changeover appli- cation with external sensor is selected)	OFF	OFF: Not active 1...5 min: Activ with selected duration
P51	Floor heating limit temperature	OFF	OFF, 10..50 °C
P52	Fan operation	1	0 = Disabled 1 = Enabled 2 = Heating only 3 = Cooling only
P53	Fan speed	3-speed	1 = 1-speed 2 = 3-speed
P54	Fan overrun time (only when electric heater is used)	60 s	0 ... 360 s
P55	Switching point fan speed III	100%	80..100%
P56	Switching point fan speed II	65%	30..75%
P57	Switching point fan speed I	10%	1..15%
P58	Fan start booster	ON	ON: enabled OFF: disabled
P59	Fan minimum on time (dwell time)	2 min	1 ... 6 min
P60	Fan kick in Comfort (time until next kick)	0	0...89 min, OFF(90 min)
P61	Fan kick in Economy (time until next kick)	OFF	0...359 min, OFF(360 min)
P62	Clean filter reminder run-time	Off (0)	Off, 100 ... 9900 hours
P65	Protection heating setpoint	8 °C	OFF, 5 ... W Cool Prot; (W Cool Prot = 40 °C max)
P66	Protection cooling setpoint	OFF	OFF, W Heat Prot ... 40; (W Heat Prot = 5 °C min.)

Par.	Name	Factory setting	Range
	Expert level		
P67	Fan start delay in 2P control	0 s	0.. 180 s
P68	Prolong Comfort period	OFF	OFF; 15 ... 360 min
P69	Temporary setpoint Comfort (see. Also Comfort setpoint P08)	OFF	OFF = Disabled ON = Enabled
P70	Infrared receiver	ON	OFF = Disabled ON = Enabled
P71	Reload factory settings	OFF	OFF = Disabled ON = Reload start

Par.	Name	Factory setting	Range
	Diagnostics & test		
d01	Application type	Diagnostics	0 = (No application) 1 = 2-pipe 2 = 2-pipe with electric heater 3 = 2-pipe with radiator 4 = 4-pipe 5 = 2 stage heat or cool 6 = 4-pipe with electric heater
d02	X1 status	Diagnostics	0 = Not activated (for DI) 1 = Activated (DI) 0...49 °C = current temp. value (for AI) 00 = heat/cool input short 100 = heat /cool input open
d03	X2 status	Diagnostics	0 = Not activated (for DI) 1 = Activated (DI) 0...49 °C = current temp. value (for AI) 00 = heat/cool input short 100 = heat /cool input open
d04	D1 status	Diagnostics	0 = Not activated (for DI) 1 = Activated (DI) 00 = heat/cool input short 100 = heat /cool input open
d05	Test mode for checking the Y1/Y2 actuator direction (press left button to escape)	---	"---" = no signal on outputs Y1 and Y2 OPE = output Y1 forced open CLO = output Y2 forced closing
d06	Test mode for checking the Y3/Y4 actuator direction (press left button to escape)	---	"---" = no signal on outputs Y3 and Y4 OPE = output Y3 forced open CLO = output Y4 forced closing

More detailed information of RDG100T settings you can find in Basic documentation P3181.
Please contact regional organisation of Siemens Building Technologies.